

Shrichackran K M

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PROFESSIONAL SUMMARY

Software Developer with hands-on experience in Java, Python, full-stack development, REST APIs, backend engineering, and AI/ML systems. Built production-style projects using React.js, Node.js, Express.js, FastAPI, Docker, MySQL, SQLite, Git, and GitHub. Seeking Software Developer, Backend Developer, Full-Stack Developer, or SDE-1 opportunities.

EDUCATION

SASTRA Deemed University

B.Tech in Electronics and Communication Engineering | CGPA: 7.96/10

- Minor Specialization: Programming and Application Development

Thanjavur, Tamil Nadu

Oct 2022 – Jun 2026

EXPERIENCE

Steel Authority of India Limited (SAIL)

Software Development Intern

June 2025 – July 2025

Salem, Tamil Nadu

- Developed Java-based backend modules for industrial machine data tracking and production-line monitoring
- Built a web-based reporting dashboard using HTML, CSS, and JavaScript to visualize machine test results and improve daily reporting workflows
- Analyzed internal data flows across production systems and supported data-driven monitoring, reporting, and process visibility

PROJECTS

Store Intelligence API | YOLOv8n, ByteTrack, FastAPI, SQLite, Docker | [GitHub](#)

June 2026

- Engineered a real-time CCTV analytics pipeline in a 32-hour hackathon — YOLOv8n for person detection, ByteTrack for multi-object tracking; served actionable retail insights via FastAPI REST backend with SQLite persistence
- Containerized the full backend with Docker for one-command deployment; implemented REST APIs for event ingestion, metrics, funnel analytics, heatmaps, and anomaly detection, with automated pytest validation and 81% test coverage.

LifeLink – Smart Blood Donation Platform | Node.js, Express.js, MySQL, REST APIs | [GitHub](#)

Sep 2025

- Built a full-stack RESTful web application for real-time blood donor matching with location-based filtering, emergency-priority logic, and efficient MySQL query optimization
- Owned end-to-end development: MySQL schema → Express REST API layer → responsive front-end interface — all built and shipped independently

Speech Denoising and Recognition System | Python, TensorFlow, PyTorch, LLM APIs | [GitHub](#)

Jan 2026

- Built an AI-native speech pipeline combining neural audio denoising (TF/PyTorch) with LLM-based transcription and structured prompt design for post-processing noisy real-world speech inputs
- Designed modular workflow: preprocessing → feature extraction → model inference → LLM orchestration → output standardization, aligned with scalable API-driven architecture

JoBzz – Agentic Job Alert System | n8n, JavaScript, APIs, Telegram | [GitHub](#)

Mar 2025

- Designed and deployed a live agentic automation pipeline on n8n integrating LinkedIn, Google Sheets, and Telegram APIs for real-time job discovery, keyword filtering, and alerting — still in production today

WiFi Network Controller | C++ · ESP32 Microcontroller · Embedded Systems | [GitHub](#)

Jan 2025

- Built an ESP32-based network controller using Flash Tool implementing real-time Wi-Fi access control

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C++, SQL, HTML, CSS

Frameworks: React.js, Node.js, Express.js, FastAPI, TensorFlow, PyTorch, NumPy, Pandas, Flutter

DevOps and Cloud: Docker, Kubernetes, AWS, Azure, GCP, Render, Git, GitHub

AI/ML: LangChain, RAG, LLMs, GenAI, NLP, Computer Vision, YOLOv8n, Claude API

Automation and Tools: n8n, Agentic AI, REST API Design, Workflow Automation, Postman, Android Studio

Core CS: OOP, Data Structures, Algorithms, DBMS, Operating Systems, Computer Networks, SDLC, Debugging

Practices: REST API Design, Git Version Control, Debugging, Unit Testing, API Testing, Deployment